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a receptacle (30) having a plug (10), wherein,  
the cartridge is engageable in the receptacle,  
the receptacle is suspended, and  
when engaged, the cartridge and the receptacle are electrically connected by the  
cooperation of the plug (10) and the stud (12, 16 or 18), said plug (10) and said stud (12,  
16 or 18) being connected by contact and not by insertion.

29. The device of claim 28, wherein the cartridge (40) comprises a data support.

30. The device of claim 29, wherein the data support is a hard disk.

31. The device of claim 28, wherein the receptacle is suspended by multidirectional shock absorbers.

32. The device of claim 28, comprising a plurality of plug and stud pairs, each plug and stud pair corresponding to one electrical contact between the cartridge and the receptacle.

33. The device of claim 28, wherein the studs have a surface shape selected from concave, planar and convex.

34. The device of claim 28, wherein the plugs (10) have a head with a rounded shape at the top.

35. The device of claim 28, further comprising a cushioning means (11), wherein the plugs are mounted elastically on the receptacle (30) by the cushioning means.

36. The device of claim 35, wherein the cushioning means (11) comprises a spring or a piston.

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37. The device of claim 28, wherein the plug is positioned in a plate (95) on the receptacle (30).

38. The device of claim 28, wherein the stud is positioned in a plate (95) on the cartridge (40).

39. The device of claim 28, comprising several zones of corresponding plugs and studs that are opposite each other when the cartridge is engaged in the receptacle.

40. The device of claim 28, wherein the stud comprises a rod (45), the stud being mounted and positioned by said rod in an opening in a wall of the cartridge (40) by glass welding (4).

41. The device of claim 40, further comprising a mold of protective material (60) deposited around a head (46) of the stud.

42. The device of claim 41, wherein the protective material comprises a resin.

43. The device of claim 28, wherein the stud comprises a metal or an electricity-conducting alloy.

44. The device of claim 28, further comprising a metal coating on the stud.

45. The device of claim 44, wherein the metal coating comprises gold.

46. The device of claim 28, wherein the cartridge (40) further comprises an integral clip (100), said clip comprising a groove (105) and

wherein the receptacle (30) further comprises a protuberant part (120) that is integral with a U-shaped engagement piece (110, 140) which is integral with the receptacle (30),

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said groove and said protuberant part cooperating to form a tight fit when the cartridge is engaged in the receptacle.

47. The device of claim 46, wherein the clip engages the U-shaped engagement piece.

48. The device according to 46, wherein the protuberant part (120) is a cylindrical pin and

the groove (105) is a semi-cylindrical groove adapted to tightly receive said pin.

49. The device according to claim 46, wherein the cartridge and the receptacle are engageable by resting the protuberant part (120) on the edge of the groove (105) and movement of the cartridge to contact the stud with the plug causes the protuberant part to roll in to the center of the groove.

50. The device according to claim 28, wherein the contact surfaces of the plug and the stud are self cleaned during engagement of the cartridge in the receptacle.

51. The device according to claim 28, further comprising a means for temporarily and automatically locking the movement of the receptacle (30) during engagement or disengagement of the cartridge in the receptacle.

52. The device of claim 51, further comprising a box having a hood (70), said receptacle being suspended in said box.

53. The device according to claim 52, wherein the locking means comprises a prism or cam (75) integral with the hood (70), and

the locking means further comprises an assembly comprising a retractable chock (90) positioned to contact the receptacle, a mechanical safety unit (85) integral with said chock, said mechanical safety unit (85) being rotatably mounted about an axis and a control rod integral with said safety unit,

said control rod (80) slidably cooperating with an inclined surface of said cam or prism (75), when engaging or disengaging the hood (70) with the box,

the cooperation of the prism or cam with the control rod causing a rotation of the unit about the axis and of the chock wherein the chock (90) acts on the receptacle to prevent contact with a shock absorbing means (300) on the box upon disengaging the hood with the box and acts on the receptacle to allow contact with the shock absorbing means upon engaging the head with the box .

54. The device of claim 53, the unit further comprising a return means that lowers the chock (90) behind the receptacle (30) during disengagement of the cam or prism from the control rod (80),

55. The device of claim 54 wherein the return means comprises a spring.

56. The device according to claim 28, wherein the return force for the plugs (10) by the cushioning means (11) is about 1 N for each plug.

57. The device according to claim 52, further comprising a means for automatically cutting the electrical power supply to the cartridge when hood (70) is open.

58. The device according to claim 57, wherein the means for cutting the power supply comprises an opening detection contact means mounted on the hood (70) and on a portion of the box that contacts the hood and contains the receptacle (30).

59. The device of claim 28, mounted on a land vehicle, a ship, an aircraft, a space vehicle or on the ground.

60. A data storage or recording device for a severe environment comprising a cartridge (40) and a suspended receptacle (30), wherein the cartridge and receptacle are electrically connected by the cooperation of a plug (10) mounted elastically on the receptacle (30) and a stud (12, 16 or 18) hermetically mounted on the cartridge (40) said

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plug (10) and said stud (12, 16 or 18) connected by contact and not by insertion, wherein the connection between cartridge (40) and the receptacle (30) is made by a plurality of pairs of plugs (10) and studs (12 or 16 or 18);

said plugs (10) extending through the wall of the receptacle (30) and presenting a protuberant portion having rounded shape;

said plugs being mounted on a shock absorption and return means (11);

said studs (12, 16 or 18) protruding through the wall of the cartridge (40) and presenting a slightly protuberant part;

said cartridge (40) and said receptacle (30) further comprising engagement means capable of positioning said plugs (10) and said studs (12, 16, 18) opposite each other so as to make an effective electrical contact and to ensure the mechanical hold of the cartridge (40) in the receptacle (30); and

said plugs (10) and said studs (12, 16 or 18) geometrically adapted to cooperate and create an effective electrical contact when the receptacle (30) and cartridge (40) are engaged with one another.

61. The device of claim 60, wherein each plug and stud pair corresponds to one electrical contact between the cartridge and the receptacle.

62. The device of claim 60, wherein the studs have a shape selected from concave, planar and convex.

63. A process for hermetically connecting a data recording and storage cartridge (40) and a receptacle (30) for use in a severe environment, comprising

contacting, without inserting, a plug (10) mounted elastically on the receptacle (30) with a stud (12, 16 or 18) hermetically mounted on the cartridge (40) to form an electrical connection between said stud and said plug.

64. The process according to claim 63, wherein a rod (45) of the stud is mounted and positioned in an opening in a wall of the cartridge (40) by glass welding (4).

65. The process of claim 63, wherein a mold of protective material (60) is deposited around a head (46) of the stud.

66. The process of claim 65, wherein the protective material comprises a resin.

67. The process of claim 63, wherein the contact is made during an engagement of the cartridge (40) into the receptacle (30).

68. The process according to claim 67, wherein the engagement comprises slidably engaging a clip (100) comprising a groove (105) integral with the cartridge (40) into a U-shaped opening of an engagement piece (110, 140) of the receptacle (30), said engagement piece comprising a protuberant part (120),

descendingly engaging the groove (105) to a position slightly askew of the protuberant part (120),

positioning a contact face of the cartridge (40) with a contact face of the receptacle (30), and

tightly fitting the protuberant part (120) into the groove (105).

69. The process according to claim 68, wherein the protuberant part (120) rests on an edge of the groove (105) after positioning the contact face of the cartridge (40) with the contact face of the receptacle (30), and

the contacting of said stud and said plug causes the pin to roll in the center of the groove.

70. The process according to claim 68, wherein the engagement results in a self-cleaning of the surfaces of the plug and the stud.

#### REMARKS

The new claims are submitted to more clearly describe the subject matter and place them in better condition for prosecution as compared to the literal translation of the